

Table 1

Table 1. Patient Profiles

Subject	Age	Sex	Seizure etiology & type	Grid Placement	Electrode #	Seizure Focus
AA	28	M	Idiopathic GTC	Left FTP	64	Left posterior temporal lobe
BB	23	M	Idiopathic CP	Left FTP	64	Left middle temporal lobe
CC	35	F	Idiopathic CP	Left FTP	38	Left inferior and mesial temporal lobe
DD	33	M	Idiopathic CP>C	Left Inferior FP and temporal	64	Left middle and posterior temporal lobe

Abbreviations: M, male; F, female, GTC, general tonic clonic; CP, complex partial; FTP, frontal-temporal-parietal; FP, frontal-parietal.

Table 2

Appendix

Table 3. Signal features of closed loop sessions

Subject	Cognitive Capacity	Action	Electrodes involved	Frequency Bands	Frequency Change	Brodman's Areas**	Optimal Performance***
AA	Severely impaired	Open and closing right hand	2, 3	(2) 11.5 - 17.5 Hz	Decrease	2, 3	80%
				49.5 - 53.5 Hz	Increase		
				(3) 31.5-33.5 Hz	Increase		
				49.5 -51.5 Hz	Increase		
BB	High Functioning	Imagine open and closing right hand	15	31.5 Hz	Decrease	3	83%
CC	High Functioning	Imagine saying move	3, 11	21.5 Hz	Decrease	9, 44	97%
DD	Mildly impaired	Say Move & imagine saying move	15, 29	13.5 Hz	Decrease	6, 45	96% & 97%
				27.5 HZ	Decrease		
				35.5 Hz	Decrease		
				13.5 Hz	Decrease	45	100% & 88%
		Tongue Protrusion & Imagined Tongue protrusion	29				

** Calculated using skull radiographs and a Talairach atlas[]

*** Maximal percentage of correct of two targets chosen

[], Talairach, J., Tournoux P., Co-Planar Stereotaxic Atlas of the Human Brain. Thieme Medical Publishers, Inc., New York (1998).